

## PATENT COOPERATION TREATY

## PCT

9/914624

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>IP13828</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/GB 00/ 00763</b>	International filing date (day/month/year) <b>03/03/2000</b>	(Earliest) Priority Date (day/month/year) <b>03/03/1999</b>
Applicant <b>B.H.R. GROUP LIMITED et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 05 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

## 4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

## 5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1  
☐ None of the figures.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 00/00763

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark n Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-4,6 and 8

A further valve (52)

2. Claims: 5,7 and 9

A fluid transfer system including a first pump  
and a jet pump

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/00763

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B24C7/00 B65G53/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B24C F04F B65G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95 29792 A (B.H.R.GROUP) 9 November 1995 (1995-11-09) cited in the application page 2, line 29-33 page 3, line 20-23 page 3, line 28-33 page 4, line 4-19; figures 1,2	1,6,8
A	---	9
A	US 4 854 090 A (THE BRITISH HYDROMECHANICS RESEARCH ASSOCIATION) 3 August 1988 (1988-08-03) cited in the application the whole document ---	1,8,9
	--- -/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

17 October 2000

Date of mailing of the international search report

10. 11. 2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Matzdorf, U

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/00763

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 35 34 723 A (SIMKA) 16 April 1987 (1987-04-16) column 3, line 18-30; figure 1	9
A	---	5,7
A	US 5 447 394 A (SHEPARD) 5 September 1995 (1995-09-05) column 3, line 59 -column 4, line 2; figure 1 -----	5,7,9

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 00/00763

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9529792 A	09-11-1995	AU 2316195 A CN 1151131 A EP 0757610 A GB 2302053 A JP 9512489 T	29-11-1995 04-06-1997 12-02-1997 08-01-1997 16-12-1997
US 4854090 A	08-08-1989	AT 51788 T AU 591529 B AU 6475986 A CA 1298708 A CN 86107567 A,B DD 269580 A DE 3670231 D DK 286887 A,B, EP 0276219 A FI 872556 A,B, WO 8702290 A IN 168092 A JP 2589074 B JP 63501489 T NO 872392 A,B, ZA 8607719 A	15-04-1990 07-12-1989 05-05-1987 14-04-1992 02-09-1987 05-07-1989 17-05-1990 04-06-1987 03-08-1988 08-06-1987 23-04-1987 02-02-1991 12-03-1997 09-06-1988 07-08-1987 27-05-1987
DE 3534723 A	16-04-1987	NONE	
US 5447394 A	05-09-1995	AU 674990 B AU 7325694 A CA 2167490 A DE 69413541 D DE 69413541 T EP 0708734 A JP 10507991 T WO 9503240 A US 5549422 A	16-01-1997 20-02-1995 02-02-1995 29-10-1998 17-06-1999 01-05-1996 04-08-1998 02-02-1995 27-08-1996

# PATENT COOPERATION TREATY

## PCT

RECEIVED 11 JUN 2001

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)


14

Applicant's or agent's file reference <b>IP13828</b>	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/GB00/00763</b>	International filing date (day/month/year) <b>03/03/2000</b>	Priority date (day/month/year) <b>03/03/1999</b>
International Patent Classification (IPC) or national classification and IPC <b>B24C7/00</b>		
Applicant <b>B.H.R. GROUP LIMITED et al.</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.
  - ☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 4 sheets.

3. This report contains indications relating to the following items:
  - I ☒ Basis of the report
  - II ☐ Priority
  - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - IV ☒ Lack of unity of invention
  - V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - VI ☐ Certain documents cited
  - VII ☐ Certain defects in the international application
  - VIII ☐ Certain observations on the international application

Date of submission of the demand  <b>03/10/2000</b>	Date of completion of this report  <b>07.06.2001</b>
Name and mailing address of the international preliminary examining authority:  <b>European Patent Office</b> <b>D-80298 Munich</b> Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer  <b>Antoniadis, F</b>  Telephone No. +49 89 2399 2392



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00763

## I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

### Description, pages:

2-11 as originally filed

1 as received on 30/04/2001 with letter of 30/04/2001

### Claims, No.:

1-8 as received on 30/04/2001 with letter of 30/04/2001

### Drawings, sheets:

1/5-5/5 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:



**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/GB00/00763

- ☐ the description, pages:  
☐ the claims, Nos.:  
☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

**IV. Lack of unity of invention**

1. In response to the invitation to restrict or pay additional fees the applicant has:

- ☒ restricted the claims.  
☐ paid additional fees.  
☐ paid additional fees under protest.  
☐ neither restricted nor paid additional fees.

2. ☐ This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

- ☐ complied with.  
☒ not complied with for the following reasons:  
**see separate sheet**

4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:

- ☐ all parts.  
☒ the parts relating to claims Nos. 1-7.

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims 1-7
	No: Claims

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00763

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Inventive step (IS)	Yes:	Claims	1-7
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-7
	No:	Claims	

2. Citations and explanations  
**see separate sheet**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

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International application No. PCT/GB00/00763

**Re Item IV**

**Lack of unity of invention**

**First invention (claims 1-7)**

Special technical feature is the provision of a further valve (52) downstream of the junction between the conduits from the valve (65) and the outlet (51) of the vessel.

**Second invention (claim 8)**

Special technical feature is that the fluid transfer system for transferring fluid from a first container to a second container comprises a first pump (14) and a further jet pump (15).

The above mentioned inventions are not so linked by the same or corresponding special technical features, as to form a single general inventive concept.

The Rule 13.1 and 13.2 PCT is therefore not met.

**Re Item V**

**Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

The nearest prior art for the subject-matter of independent claims 1 and 7 is described in WO-A-95 29792, which is discussed in the description.

**Inventive step:**

The provision of a further valve (52) downstream of the junction between the conduits from the valve (65) and the outlet (51) of the vessel.

**Technical effect:**

The valve (52) can be closed to stop the flow to the nozzle (54) when valve (65) is closed, and to stop air being drawn into the system through the nozzle (54) when valve (65) is open.

The dependent claims describe preferred embodiments of the invention and therefore they also meet the requirements of Art. 33 PCT.

WO 00/52679

PCT/GB00/00763

5/pats

FLUID SUPPLY SYSTEM

The present invention relates to a fluid supply system where a supply of clean fluid under pressure is  
5 connected to an entrainment vessel in which the clean fluid can take up another component.

Flow control in fluid supply systems is often achieved by valves. Valves can be damaged by some fluids  
10 or matter entrained by the fluids. It is a purpose of the present invention to provide a fluid supply system with a control valve arranged so that it is not damaged in the manner described above.

15 A fluid supply system employing a jet pump is disclosed in WO95/29792.

According to the invention there is provided a fluid supply system comprising a supply of clean fluid under  
20 pressure connected to an entrainment vessel in which the clean fluid can take up another component, an outlet from the container leading to a system outlet and a jet pump having a high pressure inlet, a lower pressure inlet and an outlet, the supply of pressurised clean fluid passing from  
25 the high pressure inlet to the lower pressure inlet of the jet pump en route for the inlet of the entrainment container and the outlet of the jet pump being connected through a valve to a junction between the outlet of the entrainment vessel and the system outlet.

30

When the valve is closed, the jet pump simply provides a conduit between its high pressure inlet and lower pressure inlet and the fluid flows through that conduit, then through the vessel and thence to the system  
35 outlet. When the carrier fluid enters the entrainment vessel it entrains the abrasive mixture therein and causes it to flow through the discharge tube 51. This is

CLAIMS

1. A fluid supply system including means (31,32) for supplying fluid under pressure connected to an inlet (6) of an entrainment vessel (1) in which the fluid can take up another component, an outlet (51) from the entrainment vessel (1) leading to a system outlet (54), and a jet pump (61) having a high pressure inlet (62), a lower pressure inlet (63) and an outlet (64), the supply of pressurised fluid passing from the high pressure inlet (62) to the lower pressure inlet (63) of the jet pump (61) en route for the inlet (6) of the entrainment vessel (1), and the outlet (64) of the jet pump (61) being connected through a valve (65) to a junction between the outlet (51) of the entrainment vessel (1) and the system outlet (54).
2. A system according to claim 1, including a further valve (52) provided downstream of the junction between the conduits from the valve (65) and the outlet (51) of the vessel (1).
3. A system according to claim 2, wherein the further valve (52) is operable to stop fluid flow from the system outlet (54) when the valve (65) is closed, and to stop air being drawn in through the system outlet (54) when the valve (65) is open.
4. A system according to claim 2 or 3, wherein the further valve (52) is provided with a flushing system.
5. A fluid transfer system according to claim 1, 2, 3 or 4, comprising a further vessel (41) and means for transferring fluid from the entrainment vessel (1) to the further vessel (41), which means includes a first pump (14) and a further jet pump (15), the first pump (14) taking fluid from the further vessel (41) and feeding it under pressure to the high pressure inlet of the jet pump (15),

the low pressure inlet of the jet pump being connected to the entrainment vessel (1) and the outlet of the jet pump (15) being connected to the further vessel (41).

5 6. A fluid transfer system according to claim 1, 2, 3 or 4, including an additional entrainment vessel (70) having a supply (41) of the said another component, and an outlet (76) in fluid communication with an additional inlet (7) of the entrainment vessel (1); means (79) for connecting the  
10 outlet (64) of the jet pump (61) to the additional vessel (70) to cause fluid to flow from the high pressure inlet (62) to the additional vessel (70) in which the fluid can take up the said another component and thence pass from the additional vessel outlet (76) to said entrainment vessel  
15 (1) in order to charge the entrainment vessel with the said other component (1) whilst maintaining flow to said system outlet (54) from entrainment vessel (1) outlet (51).

7. A fluid transfer system according to claim 6,  
20 comprising a further vessel (41) containing the said another component, and means for transferring fluid from the additional entrainment vessel (70) to the further vessel (41), which means includes a first pump (14) and a further jet pump (15), the first pump (14) taking fluid  
25 from the further vessel (41) and feeding it under pressure to the high pressure inlet of the jet pump (15), the low pressure inlet of the jet pump being connected to the additional entrainment vessel (70) and the outlet of the jet pump (15) being connected to the further vessel (41).

30 8. A fluid supply system including an entrainment vessel (1); means (31,32,61) for supplying fluid under pressure to an inlet (6) of the entrainment vessel (1) in which the fluid can take up another component, an outlet (51) from  
35 the entrainment vessel (1) leading to a system outlet (54); an additional entrainment vessel (70) having a supply (41) of the said another component, and an outlet (76) in fluid

communication with an additional inlet (7) of the  
entrainment vessel (1); means (79) for diverting fluid from  
said inlet (6) to the additional vessel (70) in which the  
fluid can take up the said another component and causing  
5 fluid to pass from the additional vessel outlet (76) to  
said entrainment vessel (1) in order to charge the  
entrainment vessel with the said other component (1) whilst  
maintaining flow to said system outlet (54) from  
entrainment vessel (1) outlet (51).

10

9. A fluid transfer system for transferring fluid from a  
first container (1) to a second container (41), including a  
first pump (14) and a jet pump (15), the first pump (14)  
taking fluid from the second container (41) and feeding it  
15 under pressure to the high pressure inlet of the jet pump  
(15), the low pressure inlet of the jet pump being  
connected to the first container (1) and the outlet of the  
jet pump (15) being connected to the second container (41).

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/ 00/00763

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 B24C7/00 B65G53/30

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B24C F04F B65G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95 29792 A (B.H.R.GROUP) 9 November 1995 (1995-11-09) cited in the application page 2, line 29-33 page 3, line 20-23 page 3, line 28-33 page 4, line 4-19; figures 1,2	1,6,8
A	---	9
A	US 4 854 090 A (THE BRITISH HYDROMECHANICS RESEARCH ASSOCIATION) 3 August 1988 (1988-08-03) cited in the application the whole document ---	1,8,9
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

17 October 2000

Date of mailing of the international search report

10. 11. 2000

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
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Fax: (+31-70) 340-3016

Authorized officer

Matzdorf, U



# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 00/00763

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 35 34 723 A (SIMKA) 16 April 1987 (1987-04-16) column 3, line 18-30; figure 1	9
A	-----	5,7
A	US 5 447 394 A (SHEPARD) 5 September 1995 (1995-09-05) column 3, line 59 -column 4, line 2; figure 1 -----	5,7,9

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 00/00763

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-4,6 and 8

A further valve (52)

2. Claims: 5,7 and 9

A fluid transfer system including a first pump  
and a jet pump

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP 00/00763

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9529792	A	09-11-1995	AU 2316195 A	29-11-1995
			CN 1151131 A	04-06-1997
			EP 0757610 A	12-02-1997
			GB 2302053 A	08-01-1997
			JP 9512489 T	16-12-1997
US 4854090	A	08-08-1989	AT 51788 T	15-04-1990
			AU 591529 B	07-12-1989
			AU 6475986 A	05-05-1987
			CA 1298708 A	14-04-1992
			CN 86107567 A,B	02-09-1987
			DD 269580 A	05-07-1989
			DE 3670231 D	17-05-1990
			DK 286887 A,B,	04-06-1987
			EP 0276219 A	03-08-1988
			FI 872556 A,B,	08-06-1987
			WO 8702290 A	23-04-1987
			IN 168092 A	02-02-1991
			JP 2589074 B	12-03-1997
			JP 63501489 T	09-06-1988
			NO 872392 A,B,	07-08-1987
			ZA 8607719 A	27-05-1987
DE 3534723	A	16-04-1987	NONE	
US 5447394	A	05-09-1995	AU 674990 B	16-01-1997
			AU 7325694 A	20-02-1995
			CA 2167490 A	02-02-1995
			DE 69413541 D	29-10-1998
			DE 69413541 T	17-06-1999
			EP 0708734 A	01-05-1996
			JP 10507991 T	04-08-1998
			WO 9503240 A	02-02-1995
			US 5549422 A	27-08-1996